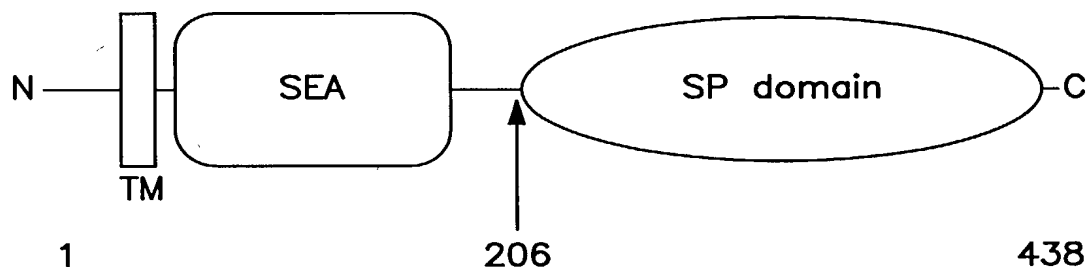


10049700-013002

# Domain organization and amino acid sequence of MTSP7



10	20	30	40	50	60
MMYTPVEFSEAEFSRAEYQRKQQFWDSVRLALFTLAIVAIIGIAIGIVTHFVVEDDKSFY					
70	80	90	100	110	120
YLASFKVTNIKYKENYGIRSSREFIERSHQIERMMSRIFRHSSVGGRFIKSHVIKLSPE					
130	140	150	160	170	180
QGVDILIVLIFRYPSTDSAEQIKKKIEKALYQSLKTKQLSLTINKPSFRLTPIDSKKMRN					
190	200	210	220	230	240
LLNSRCGIRMTSSNMPLPASSSTQ↓RIVQGRETAMEGEWPWQASLQLIGSGHQCGASLISN					
250	260	270	280	290	300
TWLLTAHCFWKNKDPTQWIATFGATITPPAVKRNVRKIILHENYHRETNENDIALVQLS					
310	320	330	340	350	360
TGVEFSNIVQRVCLPDSSIKLPPKTSVFVTGFGSIVDDGPIQNTLRQARVETISTDVCNR					
370	380	390	400	410	420
KDVIDGLITPGMLCAGFMEGKIDACKGDSGGPLVYDNHDIWYIIVGIVSWGQSCALPKKPG					
430					
VYTRVTKYRDWIASKTGM*					

↓ = protease cleavage site

FIG. 1

Title: NUCLEIC ACID MOLECULES ENCODING A  
TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED  
POLYPEPTIDES AND METHODS BASED THEREON  
Applicant: Edwin Madison et al.  
Filed: March 13, 2002 Appl. No.: 10/099,700  
Examiner: Unassigned Art Unit: Unassigned  
Our Docket No.: 24745-1613

161347700-043002

10 20 30 40 50 60  
AGATCAGATGGCGACTGAATAGAAGCTGCCCCAGTCTGGGTTTCATGATGTACACACCTG  
TCTAGTCTACCGCTGACTTATCTTCGACGGGGTCAGGACCCAAGTACTACATGTGTGGAC

70 80 90 100 110 120  
TTGAATTTTCAGAAGCTGAATTTTCACGAGCTGAATATCAAAGAAAGCAGCAATTTTGGG  
AACTTAAAGTCTTCGACTTAAGAGTGCTCGACTTATAGTTTCTTTCGTCGTAAAAACCC

130 140 150 160 170 180  
ACTCAGTACGGCTAGCTCTTTTTCACATTAGCAATTGTAGCAATCATAGGAATTGCAATTG  
TGAGTCATGCCGATCGAGAAAAGTGAATCGTTAACATCGTTAGTATCCTTAACGTTAAC

190 200 210 220 230 240  
GTATTGTTACTCATTTTTGTGTGTTGAGGATGATAAGTCTTTCATTACCTTGCCCTCTTTTA  
CATAACAATGAGTAAACAACAACCTCTACTATTTCAGAAAGATAATGGAACGGAGAAAAAT

250 260 270 280 290 300  
AAGTCACAAATATCAAATATAAAGAAAATTATGGCATAAGATCTTCAAGAGAGTTTATAG  
TTCAGTGTTTATAGTTTATATTTCTTTAATACCGTATTCTAGAAGTTCTCTCAAATATC

310 320 330 340 350 360  
AAAGGAGTCATCAGATTGAAAGAATGATGTCTAGGATATTTTCGACATTCTTCTGTAGGCG  
TTTCTCAGTAGTCTAACTTTCCTTACTACAGATCCTATAAAGCTGTAAGAAGACATCCGC

370 380 390 400 410 420  
GTGATTTATCAAATCTCATGTTATCAAATTAAGTCCAGATGAACAAGGTGTGGATATTC  
CAGCTAAATAGTTTATAGTACAATAGTTTAATTCAGGTCTACTTGTTCACACCTATAAG

430 440 450 460 470 480  
TTATAGTGCTCATATTTTCGATACCCATCTACTGATAGTGCTGAACAAATCAAGAAAAAA  
AATATCACGAGTATAAAGCTATGGGTAGATGACTATCACGACTTGTTTAGTTCTTTTTT

490 500 510 520 530 540  
TTGAAAAGGCTTTATATCAAAGTTTGAAGACCAAACAATTGTCTTTGACCATAAACAAC  
AACTTTTCCGAAATATAGTTTCAAACCTCTGGTTTGTAAACAGAACTGGTATTTGTTTG

550 560 570 580 590 600  
CATCATTTAGACTCACACCTATTGACAGCAAAAAGATGAGGAATCTTCTCAACAGTCGCT  
GTAGTAAATCTGAGTGTGGATAACTGTGCTTTTTTCTACTCCTTAGAAGAGTTGTACGCGA

610 620 630 640 650 660  
GTGGAATAAGGATGACATCTTCAAACATGCCATTACCAGCATCCTCTTCTACTCAAAGAA  
CACCTTATTCTTACTGTAGAAGTTGTACGGTAATGGTCGTAGGAGAAGATGAGTTTCTT

670 680 690 700 710 720  
TTGTCCAAGGAAGGGAACAGCTATGGAAGGGGAATGGCCATGGCCAGGCCAGCCTCCAGC  
AACAGGTTCTTCCCTTTGTGCTACCTTCCCTTACCGGTACCGTCCGGAGGTCG

730 740 750 760 770 780  
TCATAGGGTCAGGCCATCAGTGTGGAGCCAGCCTCATCAGTAACACATGGCTGCTCACAG  
AGTATCCCAGTCCGGTAGTCACACCTCGGTCCGAGTAGTCATTGTGTACCGACGAGTGT

790 800 810 820 830 840  
CAGCTCACTGCTTTTGGAAAAATAAAGACCCAACTCAATGGATTGCTACTTTTGGTGCAA  
GTGAGTGACGAAAACCTTTTATTTCTGGGTTGAGTTACCTAACGATGAAAACACGTT

850 860 870 880 890 900  
CTATAACACCACCGCAGTGAAACGAAATGTGAGGAAAATTATTCTTCATGAGAATTACC  
GATATTGTGGTGGCGTCACTTTGCTTTACACTCCTTTTAAATAAGAAGTACTCTTAATGG

910 920 930 940 950 960  
ATAGAGAAACAAATGAAAATGACATTGCTTTGGTTTCAGCTCTCTACTGGAGTTGAGTTTT  
TATCTCTTTGTTTACTTTTACTGTAACGAAACCAAGTCGAGAGATGACCTCAACTCAAAA

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Our Docket No.: 24745-1613

970 980 990 1000 1010 1020  
CAAATATAGTCCAGAGAGTTTGCCTCCCAGACTCATCTATAAAGTTGCCACCTAAAAACAA  
GTTTATATCAGGTCTCTCAAACGGAGGGTCTGAGTAGATATTTCAACGGTGGATTTTGT

1030 1040 1050 1060 1070 1080  
GTGTGTTTCGTACAGGATTTGGATCCATTGTAGATGATGGACCTATACAAAAATACACTTC  
CACACAAGCAGTGTCTAAACCTAGGTAACATCTACTACCTGGATATGTTTTATGTGAAG

1090 1100 1110 1120 1130 1140  
GGCAAGCCAGAGTGGAAACCATAAGCACTGATGTGTGTAACAGAAAGGATGTGTATGATG  
CCGTTCCGTCTCACCTTTGGTATTCGTGACTACACACATTGTCTTTCCTACACATACTAC

1150 1160 1170 1180 1190 1200  
GCCTGATAACTCCAGGAATGTTATGTGCTGGATTTCATGGAAGGAAAAATAGATGTCATGTA  
CGGACTATTGAGGTCTTACAATACACGACCTAAGTACCTTCCTTTTTATCTACGTACAT

1210 1220 1230 1240 1250 1260  
AGGGAGATTCTGGTGGACCTCTGGTTTATGATAATCATGACATCTGGTACATGTAGGTA  
TCCCTCTAAGACCACCTGGAGACCAAATACTATTAGTACTGTAGACCATGTAACATCCAT

1270 1280 1290 1300 1310 1320  
TAGTAAGTTGGGGACAATCATGTGCACTTCCCCAAAAAACCTGGAGTCTACACCAGAGTAA  
ATCATTC AACCCCTGTAGTACACGTGAAGGGTTTTTTGGACCTCAGATGTGGTCTCATT

1330 1340 1350 1360 1370 1380  
CTAAGTATCGAGATTGGATTGCCTCAAAGACTGGTATGTAGTGTGGATTGTCCATGAGTT  
GATTCATAGCTCTAACCTAACGGAGTTTCTGACCATACATCACACCTAACAGGTA

1390 1400 1410 1420 1430 1440  
ATACACATGGCACACAGAGCTGATACTCCTGCGTATTTTGTATTGTTTAAATTCATTAC  
TATGTGTACCGTGTCTCGACTATGAGGACGCATAAAACATAACAAATTTAAGTAAATG

1450 1460 1470 1480 1490 1500  
TTTGGATTAGTGTCTTTTGCTAGATGTCAAGAAGCCCTTCAGACCCAGACAAATCTAATAT  
AAACCTAATCACGAAAACGATCTACAGTTCTTCGGGAAGTCTGGGTCTGTTTAGATTATA

1510 1520 1530 1540 1550 1560  
CCTGAGGTGGCCTTTACATACGTAGGACCAAACCTCTCTACCATGAGGGAAGAAGACAC  
GGACTCCACCGGAAATGTATGCATCCTGGTTTGGGAGAGATGGTACTCCCTTCTTCTGTG

1570 1580 1590 1600 1610 1620  
AGCAAATGACAGACAGCACCTATTCCCTTACTCACAAGGGAAGTCTTGTGATACTTCCCT  
TCGTTTACTGTCTGTGCGTGGATAAGGAATGAGTGTTCCTTTGACGAACACTATGAAGGA

1630 1640 1650 1660 1670 1680  
AATAAGATAAATAAGTGGTTTCCCTCAATTGAAGACAGGAACATCATTTTCCACAGGATA  
TTATTCTATTTATTCACCAAAGGGAGTTAACTTCTGTCTCTGTAGTAAAGGTGTCTCTAT

1690 1700 1710 1720 1730 1740  
TGAAGAGCTGCCAGTAATGCCAAAATCTTACCTCATATAATACCTGGAGCATGTGAGATT  
ACTTCTCGACGGTCATTACGGTTTTAGAAATGGAGTATATTATGGACCTCGTACACTCTAA

1750 1760 1770 1780 1790 1800  
CTTCTAGTGAAAAAGAACAGTCTTCCCTGAAGACTCAGGGCTTCAACATTCTAGAACTGA  
GAAGATCACTTTTTCTTGTGAGAAGGGACTTCTGAGTCCCGAAGTTGTAAGATCTTGACT

1810 1820 1830 1840 1850 1860  
TAAGTGGACCTTCAGTGTGCAAGAATGGAGAAGCATGGGATTTGCATTATGACTTGAACCT  
ATTACCTGGAAGTCACACGTTCTTACCTCTTCGTACCTAAACGTAATACTGAACCTTGA

1870 1880 1890 1900 1910 1920  
GGGCTTATATCTAATAATACAGAGCACTATCACTAACCTCAACAGTTGACATTTTAAAG  
CCCGAATATAGATTATTATGTCTCGTGATAGTGATTGGAGTTGTCAACTGTAAAAATTTTC

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Examiner: Unassigned

Art Unit: Unassigned

Our Docket No.: 24745-1613

1930 1940 1950 1960 1970 1980  
TTTTTAAATGTATCTGAACCTTGCTGTTAACACAGTGTTATAACTCAAGCACTAGCTTCAG  
AAAAATTTACATAGACTTGAACGACAATTGTGTCACAATATTGAGTTCGTGATCGAAGTC  
  
1990 2000 2010 2020 2030 2040  
GAAGCATGTTGTGTTGTTAAGAGCTTTTTCTGATTTATTCTTTAACAGCATCTTGCCATC  
CTTCGTACAACACAACAATTCTTCGAAAAGACTAAATAAGAAATTGTCGTAGAACGGTAG  
  
2050 2060 2070 2080 2090 2100  
TATATGTTAGTAGCAGTTGGCCAGAAAGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
ATATACAATCATCGTCAACGGGGTCTTTCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTT